

Title (en)  
A meander line antenna

Title (de)  
Mäanderförmige Antenne

Title (fr)  
Antenne à méandres

Publication  
**EP 1686649 A1 20060802 (EN)**

Application  
**EP 05013235 A 20050620**

Priority  
JP 2005024727 A 20050201

Abstract (en)  
A meander line antenna formed in the shape of meander is disclosed. The meander line antenna includes a bottom half section that is constituted by a folded conductive pattern of a folded dipole antenna, and includes a feeding point (1) at the central part for mounting an IC chip, a top half section that is constituted by a folded conductive pattern of a folded dipole antenna shaped like the bottom half section, and a frequency adjusting section (3) consisting of connecting conductive patterns (2) arranged at an interval corresponding to a desired frequency centering on the feeding point (1), the connecting conductive patterns (2) connecting the bottom half section and the top half section. The connecting conductive patterns (2) can be cut off, and the folded conductive pattern outside of the cut-off connecting conductive patterns (2) can be removed.

IPC 8 full level  
**H01Q 1/36** (2006.01); **G06K 19/077** (2006.01); **H01Q 1/22** (2006.01); **H01Q 5/10** (2015.01); **H01Q 9/26** (2006.01); **H01Q 9/28** (2006.01)

CPC (source: EP KR US)  
**G06K 19/0726** (2013.01 - EP US); **G06K 19/07749** (2013.01 - EP US); **H01Q 1/22** (2013.01 - EP US); **H01Q 1/36** (2013.01 - EP US); **H01Q 9/16** (2013.01 - KR); **H01Q 9/26** (2013.01 - EP KR US); **H01Q 9/285** (2013.01 - EP US)

Citation (search report)  
• [AY] US 2002003496 A1 20020110 - BRADY MICHAEL JOHN [US], et al  
• [XY] TAKIGUCHI M ET AL: "Input impedance increase of a very small meander line antenna", IEEE ANTENNAS AND PROPAGATION SOCIETY INTERNATIONAL SYMPOSIUM. 2003 DIGEST. APS. COLUMBUS, OH, JUNE 22 - 27, 2003, NEW YORK, NY : IEEE, US, vol. VOL. 4 OF 4, 22 June 2003 (2003-06-22), pages 856 - 859, XP010649687, ISBN: 0-7803-7846-6  
• [DAY] PATENT ABSTRACTS OF JAPAN vol. 2003, no. 03 5 May 2003 (2003-05-05)  
• [A] PATENT ABSTRACTS OF JAPAN vol. 2003, no. 12 5 December 2003 (2003-12-05) & US 2002190903 A1 20021219 - WATADA KAZUO [JP], et al

Cited by  
EP1772927A1

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**EP 1686649 A1 20060802**; **EP 1686649 B1 20071219**; CN 101820100 A 20100901; CN 101820100 B 20110727; CN 1815808 A 20060809; CN 1815808 B 20100804; DE 602005003915 D1 20080131; DE 602005003915 T2 20081218; JP 2006217000 A 20060817; JP 4711692 B2 20110629; KR 100725201 B1 20070607; KR 20060088462 A 20060804; TW 200629655 A 20060816; TW I260824 B 20060821; US 2006170606 A1 20060803; US 7205954 B2 20070417

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